

7.5 to 10 Watt

24 Pin DIL Package V



2:1 Input Range

- o Wide Input Range
- o Pi Input Filter
- o Regulated Outputs
- o Continuous Short Circuit Protection
- o Standard 1500 VDC I/O-Isolation
- o High Efficiency up to 89%
- o No Tantalum Capacitor Inside



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF
				NO LOAD	FULL LOAD	
10VRS12W2.5LC	9-18 VDC	2.5 VDC	3000 mA	40 mA	753 mA	83
10VRS12W3.3LC		3.3 VDC	3000 mA		971 mA	85
10VRS12W5LC		5 VDC	2000 mA		958 mA	87
10VRS12W12LC		12 VDC	835 mA		949 mA	88
10VRS12W15LC		15 VDC	666 mA		946 mA	88
10VRD12W12LC		±12 VDC	416 mA	20 mA	956 mA	87
10VRD12W15LC		±15 VDC	333 mA		968 mA	86
10VRS24W2.5LC	18-36 VDC	2.5 VDC	3000 mA	30 mA	368 mA	85
10VRS24W3.3LC		3.3 VDC	3000 mA		480 mA	86
10VRS24W5LC		5 VDC	2000 mA		475 mA	88
10VRS24W12LC		12 VDC	835 mA		470 mA	89
10VRS24W15LC		15 VDC	666 mA		468 mA	89
10VRD24W12LC		±12 VDC	416 mA	20 mA	473 mA	88
10VRD24W15LC		±15 VDC	333 mA		478 mA	87
10VRS48W2.5LC	36-75 VDC	2.5 VDC	3000 mA	15 mA	185 mA	85
10VRS48W3.3LC		3.3 VDC	3000 mA		240 mA	86
10VRS48W5LC		5 VDC	2000 mA		240 mA	87
10VRS48W12LC		12 VDC	835 mA		235 mA	89
10VRS48W15LC		15 VDC	666 mA		234 mA	89
10VRD48W12LC		±12 VDC	416 mA	10 mA	236 mA	88
10VRD48W15LC		±15 VDC	333 mA		239 mA	87

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS

Input Voltage Range		2:1
Under Voltage lockout	12 Vin Power up	8.8 V
	12 Vin Power down	8 V
	24 Vin Power up	17 V
	24 Vin Power down	16 V
	48 Vin Power up	34 V
	48 Vin Power down	32 V
Input Filter		Pi Type

OUTPUT SPECIFICATIONS

Voltage Accuracy		±1.5% max.
Voltage Balance (Dual)		±2.0% max.
Transient Response:	75%-100% Step Load Change Error Band Recovery Time	+5% Vout nominal <300 μs
Temperature Coefficient		±0.05%/°C
Ripple & Noise 20MHz BW	Single Dual	75 mV p-p max. 100 mV p-p max.
Short Circuit Protection		Continuous
Line Regulation	Single Dual	±0.2% max. ±0.5% max.
Load Regulation	Single Dual	±0.5% max. ±1.0% max.
Over Voltage Protection (Zener Diode Clamp)	2.5 V	3.9 V
	3.3 V	3.9 V
	5 V	6.2 V
	12 V	15 V
	15 V	18 V

NOTE:

Line Regulation measured from High Line to Low Line

Load Regulation Output measured from Full Load to 10% Load

SPECIFICATIONS

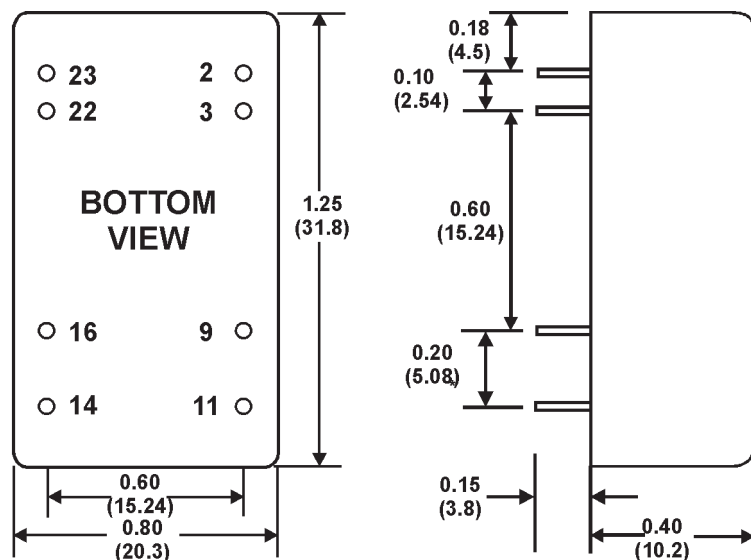
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GENERAL SPECIFICATION

Efficiency	see table
Isolation Voltage	1500 VDC min.
Isolation Resistance	1000 Mohms
Switching Frequency	380 kHz
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-40°C to +125°C
Case Temperature	100°C max.
Derating Above +71°C	Linearly to Zero power at 100°C
Cooling	Natural Convection
Dimensions	1.25x0.8x0.4 Inches (31.8x20.3x10.2 mm)
Case Material	Black Coated Copper with Non-Conductive Base
Weight	18.4 g

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MECHANICAL SPECIFICATIONS**CASE "V"**

PIN CONNECTIONS		
PIN	SINGLE	Dual
2 & 3	-INPUT	-INPUT
9	NO PIN	COMMON
10	NO PIN	NOT CONNECTED
11	NOT CONNECTED	-OUTPUT
14	+OUTPUT	+OUTPUT
16	-OUTPUT	COMMON
22 & 23	+INPUT	+INPUT

Pin Size is 0.020 Inch (0.5 mm) DIA

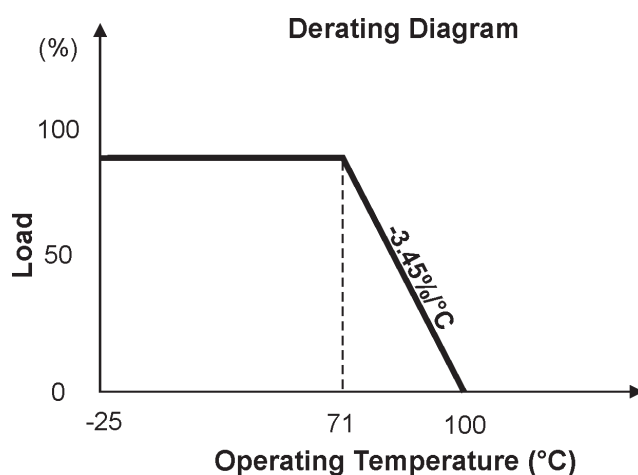
All Dimensions in Inches (mm).

Tolerance x.xx=±0.02, x.xxx=±0.010 Inches

x.x=±0.5, x.xx=±0.25 mm

APPLICATION NOTES & DIAGRAMS

Dual Output requests a minimum Output Load of 42 mA @ ±12 Vout and 33 mA @ ±15 Vout.

**NOTICE:**

The information in this document has been carefully checked. However, no responsibility is assumed for inaccuracies! Specifications can be changed without notice. The latest and most complete information can be found on our website.